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FIG. 1A

Mutations in

RAD53:

R70A

H88A

E117A

Scfkh1	76-VTIGRND-X15-IDIDGPAK---	IVSRKHAIR-X08	-EQIF---	GRNCAKVNREIP-X07	-TVQSGCIIDIG-162
Scfkh2	83-VSICRND-X18-VNIDGPAK---	WVRNHAIR-X08	-EJH---	GRNCAKVNREIP-X07	-IRUSSCTLDIG-172
Ylr183c	118-ITIGRNS-Q---CDVACRNN---	FISRVHSHIT-X40	-AYRV---	PRFSNEKVGKIODE	-GGFINFTDEEGTVM-222
ScRad53 (FHA1)	66-WTIGRNP---CDYEGNIS---	RISNCHPIL-X06	-IEND---	STNGTFLNCRV-KNSN-QILSCGDEITVG-133	
SpCds1	60-WGGRHKS---CEVING---	PRVSNHETV-X13	-FLHDI---	SSNGTFLNCRV-KNSR-TIESNGDEIRIG-133	
MtCuEmr	308-TAIGRLND---NDIVDSAN---	VSRHHAIV-X06	-VINDI---	SSNGTFLNCRV-KNSR-TIESNGDEIRIG-133	
MtCuY04C12.31	228-VTIGRAND---NDIVPEVL---	ASRHAIV-X06	-EIRDR---	SSNGTFLNCRV-KNSR-TIESNGDEIRIG-133	
Ydr200c	185-LKIGRPVT-X17-QVRDNGNFD	SRVSRHACUS-X08	-YIRDIK---	SSNGTFLNCRV-KNSR-TIESNGDEIRIG-133	
Ylr283w	99-LKIGREVA X22 QVRDNGNFD	SRVSRHACUS-X08	-YIRDIK---	SSNGTFLNCRV-KNSR-TIESNGDEIRIG-133	
Yhr115c	189-IDIGRYE-X09-PDOYHPVFKSV	SRVSRHACUS-X07	-FLDMK---	SSNGTFLNCRV-KNSR-TIESNGDEIRIG-133	
Ynl116w	295-LVIGRYE-X09-PEOYHPVFKSV	SRVSRHACUS-X07	-YIRDMK---	SSNGTFLNCRV-KNSR-TIESNGDEIRIG-133	
SpDma1	60-TYIGRYE-RYN-GGVSALVRSKV	SRVSRHACUS-X06	-YIRDMK---	SSNGTFLNCRV-KNSR-TIESNGDEIRIG-133	
MtCuY10H4.20C	455-NIGRQD---AQFPPDTG---	VSRHHAIR-X06	-LEADI---	SSNGTFLNCRV-KNSR-TIESNGDEIRIG-133	
AnaCYAD	24-FYIGRLPE---CMYEPFAG---	VSRHHAIR-X07	-IREDIG---	SSNGTFLNCRV-KNSR-TIESNGDEIRIG-133	
Scfhl1	300-AIGRSENDFSHKVDNIGP---	ISRHACUS-X08	-ELSH---	SSNGTFLNCRV-KNSR-TIESNGDEIRIG-133	
MtCuY1A11.16C	77-TSAGRPD---SDIFDODVT---	VSRHHAIR-X06	-NVODV---	SSNGTFLNCRV-KNSR-TIESNGDEIRIG-133	
MtCuY10H4.19C	83-VTIGRADD---STVITDDY---	ASTRHAIR-X05	-YREDIG---	SSNGTFLNCRV-KNSR-TIESNGDEIRIG-133	
ScDun1	56-TYIGRSRS---CDVISE---	PDISTHAETH-X12	-LINDIK---	SSNGTFLNCRV-KNSR-TIESNGDEIRIG-133	
Ydr501w	102-LAIGRKS-V---CNIDIFC---	RKNISRHAFIS-X38	-FYKLAEEPLTS	SSNGTFLNCRV-KNSR-TIESNGDEIRIG-133	
AnaFrah	204-VYIGRND-RIP-PDVYSGFANSEI	SVSRHACUS-X06	-YREDIG---	SSNGTFLNCRV-KNSR-TIESNGDEIRIG-133	
SynCYAA	29-WYIGRSQD---NDVIRDNC---	ISRHACUS-X07	-LINDIG---	SSNGTFLNCRV-KNSR-TIESNGDEIRIG-133	
HsN1brin	24-YVIGRGN---CALLTEN---	DQSI SRHACUS-X17	-YREDIG---	SSNGTFLNCRV-KNSR-TIESNGDEIRIG-133	
DmChk2	52-FYIGRGEANDLIL-TIANPEKI	LTRISKHAFIS-X10	-YREDIG---	SSNGTFLNCRV-KNSR-TIESNGDEIRIG-133	
HsChk2	113-VYIGRKSCEYCF-DEPLAKRDKRTY	SKHAFIS-X11	-YREDIG---	SSNGTFLNCRV-KNSR-TIESNGDEIRIG-133	
MmMNF	107-VTIGRNS-QGS-VDSMGL---	SSFISRHACUS-X06	-YREDIG---	SSNGTFLNCRV-KNSR-TIESNGDEIRIG-133	
SynMCRB	61-YTIGRSSS---CDIQON---	PLVSOHCHER-X09	-YREDIG---	SSNGTFLNCRV-KNSR-TIESNGDEIRIG-133	
ScMek1	47-VNIGRNDK-E---COMETN---	PSISEVICHEN-X12	-YREDIG---	SSNGTFLNCRV-KNSR-TIESNGDEIRIG-133	
AtKAP	208-VNIGRVSP---SDIAKDS---	EVSKHACUS-X08	-YREDIG---	SSNGTFLNCRV-KNSR-TIESNGDEIRIG-133	
HsK1-67	27-CLIGRGIE---CDIRIQ---	LP-VSKOCHER-X06	-YREDIG---	SSNGTFLNCRV-KNSR-TIESNGDEIRIG-133	
CezK632.2	108-VYIGRINP-G---CDIRIQ---	HP-SISRHACUS-X13	-YREDIG---	SSNGTFLNCRV-KNSR-TIESNGDEIRIG-133	
Ygl081w	22-KYIGRSSFDONS-LCKYINLFDPEI	SRHACUS-X19	-YREDIG---	SSNGTFLNCRV-KNSR-TIESNGDEIRIG-133	
ScRad53 (FHA2)	601-FYIGRSED---CNCHED---	NHISRHACUS-X16	-YREDIG---	SSNGTFLNCRV-KNSR-TIESNGDEIRIG-133	
Ylr016c	104-VYIGRMIG-X15-ADICPEET---	SSKHACUS-X10	-YREDIG---	SSNGTFLNCRV-KNSR-TIESNGDEIRIG-133	

BOX A

BOX B

BOX C

BOX D